

Xytron™ G4010W

PPS–GF40

40% Glass Reinforced, Wear and Friction Modified, Flame Retardant

Print Date: 2024–03–27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Molding shrinkage (parallel)	0.2	%	ISO 294–4
Molding shrinkage (normal)	0.5	%	ISO 294–4
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	15000	MPa	ISO 527–1/–2
Tensile modulus (120°C)	7500	MPa	ISO 527–1/–2
Tensile modulus (160°C)	5500	MPa	ISO 527–1/–2
Stress at break	200	MPa	ISO 527–1/–2
Stress at break (120°C)	86	MPa	ISO 527–1/–2
Stress at break (160°C)	65	MPa	ISO 527–1/–2
Strain at break	2	%	ISO 527–1/–2
Strain at break (120°C)	3.5	%	ISO 527–1/–2
Strain at break (160°C)	4	%	ISO 527–1/–2
Flexural modulus	14500	MPa	ISO 178
Flexural strength	280	MPa	ISO 178
Flexural modulus (120°C)	7200	MPa	ISO 178
Flexural modulus (160°C)	5500	MPa	ISO 178
Flexural modulus (200°C)	4800	MPa	ISO 178
Charpy impact strength (+23°C)	55	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	60	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	10	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	10	kJ/m ²	ISO 180/1A

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Property Data

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THERMAL PROPERTIES			
Melting temperature (10°C/min)	280	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	265	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.15	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.4	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, parallel, above Tg	0.15	E-4/°C	ISO 11359-1/-2
Coef. of lin. therm expansion, normal, above Tg	1.1	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
UL recognition	Yes	-	-
Burning Behav. at 3.0 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
UL recognition	Yes	-	-
Relative Temperature Index – electrical	130	°C	UL746B
RTI electrical (Thickness (1) tested)	0.4	mm	UL746B
ELECTRICAL PROPERTIES			
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Comparative tracking index	175	V	IEC 60112
OTHER PROPERTIES			
Density	1740	kg/m³	ISO 1183
Humidity absorption	0.04	%	Sim. to ISO 62

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